

10/588323

253780.txt
SEQUENCE LISTING

AP20 Rec'd PCT/PTO 03 AUG 2006

<110> Astellas US LLC
MAGILAVY, Daniel

<120> METHODS OF TREATING SKIN DISORDERS

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<150> 60/542,311

<151> 2004-02-06

<150> PCT/US2005/003907

<151> 2005-02-07

<160> 8

<170> PatentIn version 3.3

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gtc tgc ctg ctg cac tgc ttt ggt ttc atc agc tgt ttt tcc caa caa	96
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-10 -5 -1 1	

ata tat ggt gtt gtg tat ggg aat gta act ttc cat gta cca agc aat	144
Ile Tyr Gly Val Val Tyr Gly Asn Val Thr Phe His Val Pro Ser Asn	
5 10 15 20	

gtg cct tta aaa gag gtc cta tgg aaa aaa caa aag gat aaa gtt gca	192
Val Pro Leu Lys Glu Val Leu Trp Lys Lys Gln Lys Asp Lys Val Ala	
25 30 35	

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gaa ctg gaa aat tct gaa ttc aga gct ttc tca tct ttt aaa aat agg	240
Glu Leu Glu Asn Ser Glu Phe Arg Ala Phe Ser Ser Phe Lys Asn Arg	
40 45 50	
ggt tat tta gac act gtg tca ggt agc ctc act atc tac aac tta aca	288
Val Tyr Leu Asp Thr Val Ser Gly Ser Leu Thr Ile Tyr Asn Leu Thr	
55 60 65	
tca tca gat gaa gat gag tat gaa atg gaa tcg cca aat att act gat	336
Ser Ser Asp Glu Asp Glu Tyr Glu Met Glu Ser Pro Asn Ile Thr Asp	
70 75 80	
acc atg aag ttc ttt ctt tat gtg ctt gag tct ctt cca tct ccc aca	384
Thr Met Lys Phe Phe Leu Tyr Val Leu Glu Ser Leu Pro Ser Pro Thr	
85 90 95 100	
cta act tgt gca ttg act aat gga agc att gaa gtc caa tgc atg ata	432
Leu Thr Cys Ala Leu Thr Asn Gly Ser Ile Glu Val Gln Cys Met Ile	
105 110 115	
cca gag cat tac aac agc cat cga gga ctt ata atg tac tca tgg gat	480
Pro Glu His Tyr Asn Ser His Arg Gly Leu Ile Met Tyr Ser Trp Asp	
120 125 130	
tgt cct atg gag caa tgt aaa cgt aac tca acc agt ata tat ttt aag	528
Cys Pro Met Glu Gln Cys Lys Arg Asn Ser Thr Ser Ile Tyr Phe Lys	
135 140 145	
atg gaa aat gat ctt cca caa aaa ata cag tgt act ctt agc aat cca	576
Met Glu Asn Asp Leu Pro Gln Lys Ile Gln Cys Thr Leu Ser Asn Pro	
150 155 160	
tta ttt aat aca aca tca tca atc att ttg aca acc tgt atc cca agc	624
Leu Phe Asn Thr Thr Ser Ser Ile Ile Leu Thr Thr Cys Ile Pro Ser	
165 170 175 180	
agc ggt cat tca aga cac aga tat gca ctt ata ccc ata cca tta gca	672
Ser Gly His Ser Arg His Arg Tyr Ala Leu Ile Pro Ile Pro Leu Ala	
185 190 195	
gta att aca aca tgt att gtg ctg tat atg aat ggt att ctg aaa tgt	720
Val Ile Thr Thr Cys Ile Val Leu Tyr Met Asn Gly Ile Leu Lys Cys	
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-10 -5 -1 1

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Ile Tyr Gly Val Val Tyr Gly Asn Val Thr Phe His Val Pro Ser Asn
5 10 15 20
Val Pro Leu Lys Glu Val Leu Trp Lys Lys Gln Lys Asp Lys Val Ala
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Glu Leu Glu Asn Ser Glu Phe Arg Ala Phe Ser Ser Phe Lys Asn Arg
40 45 50
Val Tyr Leu Asp Thr Val Ser Gly Ser Leu Thr Ile Tyr Asn Leu Thr
55 60 65
Ser Ser Asp Glu Asp Glu Tyr Glu Met Glu Ser Pro Asn Ile Thr Asp
70 75 80
Thr Met Lys Phe Phe Leu Tyr Val Leu Glu Ser Leu Pro Ser Pro Thr
85 90 95 100
Leu Thr Cys Ala Leu Thr Asn Gly Ser Ile Glu Val Gln Cys Met Ile
105 110 115
Pro Glu His Tyr Asn Ser His Arg Gly Leu Ile Met Tyr Ser Trp Asp
120 125 130
Cys Pro Met Glu Gln Cys Lys Arg Asn Ser Thr Ser Ile Tyr Phe Lys
135 140 145
Met Glu Asn Asp Leu Pro Gln Lys Ile Gln Cys Thr Leu Ser Asn Pro
150 155 160
Leu Phe Asn Thr Thr Ser Ser Ile Ile Leu Thr Thr Cys Ile Pro Ser
165 170 175 180
Ser Gly His Ser Arg His Arg Tyr Ala Leu Ile Pro Ile Pro Leu Ala
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gtc tgc ctg ctg cac tgc ttt ggt ttc atc agc tgt ttt tcc caa caa      96
Val Cys Leu Leu His Cys Phe Gly Phe Ile Ser Cys Phe Ser Gln Gln
              -10              -5              -1              1

ata tat ggt gtt gtg tat ggg aat gta act ttc cat gta cca agc aat      144
Ile Tyr Gly Val Val Tyr Gly Asn Val Thr Phe His Val Pro Ser Asn
5              10              15

gtg cct tta aaa gag gtc cta tgg aaa aaa caa aag gat aaa gtt gca      192
Val Pro Leu Lys Glu Val Leu Trp Lys Lys Gln Lys Asp Lys Val Ala
              25              30              35

gaa ctg gaa aat tct gaa ttc aga gct ttc tca tct ttt aaa aat agg      240
Glu Leu Glu Asn Ser Glu Phe Arg Ala Phe Ser Ser Phe Lys Asn Arg
              40              45              50

gtt tat tta gac act gtg tca ggt agc ctc act atc tac aac tta aca      288
Val Tyr Leu Asp Thr Val Ser Gly Ser Leu Thr Ile Tyr Asn Leu Thr
55              60              65

tca tca gat gaa gat gag tat gaa atg gaa tcg cca aat att act gat      336
Ser Ser Asp Glu Asp Glu Tyr Glu Met Glu Ser Pro Asn Ile Thr Asp
70              75              80

acc atg aag ttc ttt ctt tat gtg ctt gag tct ctt cca tct ccc aca      384
Thr Met Lys Phe Phe Leu Tyr Val Leu Glu Ser Leu Pro Ser Pro Thr
85              90              95              100

cta act tgt gca ttg act aat gga agc att gaa gtc caa tgc atg ata      432
Leu Thr Cys Ala Leu Thr Asn Gly Ser Ile Glu Val Gln Cys Met Ile
              105              110              115

cca gag cat tac aac agc cat cga gga ctt ata atg tac tca tgg gat      480
Pro Glu His Tyr Asn Ser His Arg Gly Leu Ile Met Tyr Ser Trp Asp
              120              125              130

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tgt cct atg gag caa tgt aaa cgt aac tca acc agt ata tat ttt aag	528
Cys Pro Met Glu Gln Cys Lys Arg Asn Ser Thr Ser Ile Tyr Phe Lys	
135 140 145	
atg gaa aat gat ctt cca caa aaa ata cag tgt act ctt agc aat cca	576
Met Glu Asn Asp Leu Pro Gln Lys Ile Gln Cys Thr Leu Ser Asn Pro	
150 155 160	
tta ttt aat aca aca tca tca atc att ttg aca acc tgt atc cca agc	624
Leu Phe Asn Thr Thr Ser Ser Ile Ile Leu Thr Thr Cys Ile Pro Ser	
165 170 175 180	
agc ggt cat tca aga cac aga tat gca ctt ata ccc ata cca tta gca	672
Ser Gly His Ser Arg His Arg Tyr Ala Leu Ile Pro Ile Pro Leu Ala	
185 190 195	
gta att aca aca tgt att gtg ctg tat atg aat ggt atg tat gct ttt	720
Val Ile Thr Thr Cys Ile Val Leu Tyr Met Asn Gly Met Tyr Ala Phe	
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Ile Tyr Gly Val Val Tyr Gly Asn Val Thr Phe His Val Pro Ser Asn	5 10 15 20
Val Pro Leu Lys Glu Val Leu Trp Lys Lys Gln Lys Asp Lys Val Ala	25 30 35
Glu Leu Glu Asn Ser Glu Phe Arg Ala Phe Ser Ser Phe Lys Asn Arg	40 45 50
Val Tyr Leu Asp Thr Val Ser Gly Ser Leu Thr Ile Tyr Asn Leu Thr	55 60 65
Ser Ser Asp Glu Asp Glu Tyr Glu Met Glu Ser Pro Asn Ile Thr Asp	70 75 80
Thr Met Lys Phe Phe Leu Tyr Val Leu Glu Ser Leu Pro Ser Pro Thr	85 90 95 100

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Leu Thr Cys Ala Leu Thr Asn Gly Ser Ile Glu Val Gln Cys Met Ile
105 110 115

Pro Glu His Tyr Asn Ser His Arg Gly Leu Ile Met Tyr Ser Trp Asp
120 125 130

Cys Pro Met Glu Gln Cys Lys Arg Asn Ser Thr Ser Ile Tyr Phe Lys
135 140 145

Met Glu Asn Asp Leu Pro Gln Lys Ile Gln Cys Thr Leu Ser Asn Pro
150 155 160

Leu Phe Asn Thr Thr Ser Ser Ile Ile Leu Thr Thr Cys Ile Pro Ser
165 170 175 180

Ser Gly His Ser Arg His Arg Tyr Ala Leu Ile Pro Ile Pro Leu Ala
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-20 -15 -10

48

gtt tct tcc aaa ggt gca gtc tcc aaa gag att acg aat gcc ttg gaa
Val Ser Ser Lys Gly Ala Val Ser Lys Glu Ile Thr Asn Ala Leu Glu

96

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caa Gln 25	atg Met	agt Ser	gat Asp	gat Asp	att Ile 30	gac Asp	gat Asp	ata Ile	aaa Lys	tgg Trp 35	gaa Glu	aaa Lys	act Thr	tca Ser	gac Asp 40	192		
aag Lys	aaa Lys	aag Lys	att Ile	gca Ala 45	caa Gln	ttc Phe	aga Arg	aaa Lys	gag Glu 50	aaa Lys	gag Glu	act Thr	ttc Phe	aag Lys 55	gaa Glu	240		
aaa Lys	gat Asp	aca Thr	tat Tyr 60	aag Lys	cta Leu	ttt Phe	aaa Lys	aat Asn 65	gga Gly	act Thr	ctg Leu	aaa Lys	att Ile 70	aag Lys	cat His	288		
ctg Leu	aag Lys	acc Thr 75	gat Asp	gat Asp	cag Gln	gat Asp	atc Ile 80	tac Tyr	aag Lys	gta Val	tca Ser	ata Ile 85	tat Tyr	gat Asp	aca Thr	336		
aaa Lys	gga Gly 90	aaa Lys	aat Asn	gtg Val	ttg Leu	gaa Glu 95	aaa Lys	ata Ile	ttt Phe	gat Asp	ttg Leu 100	aag Lys	att Ile	caa Gln	gag Glu	384		
agg Arg 105	gtc Val	tca Ser	aaa Lys	cca Pro	aag Lys 110	atc Ile	tcc Ser	tgg Trp	act Thr	tgt Cys 115	atc Ile	aac Asn	aca Thr	acc Thr	ctg Leu 120	432		
acc Thr	tgt Cys	gag Glu	gta Val	atg Met 125	aat Asn	gga Gly	act Thr	gac Asp	ccc Pro 130	gaa Glu	tta Leu	aac Asn	ctg Leu	tat Tyr 135	caa Gln	480		
gat Asp	ggg Gly	aaa Lys	cat His 140	cta Leu	aaa Lys	ctt Leu	tct Ser	cag Gln 145	agg Arg	gtc Val	atc Ile	aca Thr	cac His 150	aag Lys	tgg Trp	528		
acc Thr	acc Thr	agc Ser 155	ctg Leu	agt Ser	gca Ala	aaa Lys	ttc Phe 160	aag Lys	tgc Cys	aca Thr	gca Ala	ggg Gly 165	aac Asn	aaa Lys	gtc Val	576		
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gac Asp 185	atc Ile	tat Tyr	ctc Leu	atc Ile	att Ile 190	ggc Gly	ata Ile	tgt Cys	gga Gly	gga Gly 195	ggc Gly	agc Ser	ctc Leu	ttg Leu	atg Met 200	672		
gtc Val	ttt Phe	gtg Val	gca Ala	ctg Leu 205	ctc Leu	gtt Val	ttc Phe	tat Tyr	atc Ile 210	acc Thr	aaa Lys	agg Arg	aaa Lys	aaa Lys 215	cag Gln	720		
agg Arg	agt Ser	cgg Arg	aga Arg 220	aat Asn	gat Asp	gag Glu	gag Glu	ctg Leu 225	gag Glu	aca Thr	aga Arg	gcc Ala	cac His 230	aga Arg	gta Val	768		
gct Ala	act Thr	gaa Glu 235	gaa Glu	agg Arg	ggc Gly	cgg Arg	aag Lys 240	ccc Pro	cac His	caa Gln	att Ile	cca Pro 245	gct Ala	tca Ser	acc Thr	816		
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Pro	Gln	Asn	Pro	Ala	Thr	Ser	Gln	His	Pro	Pro	Pro	Pro	Pro	Gly	His	
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Arg	Ser	Gln	Ala	Pro	Ser	His	Arg	Pro	Pro	Pro	Pro	Gly	His	Arg	Val	
265					270					275					280	
cag	cac	cag	cct	cag	aag	agg	cct	cct	gct	ccg	tcg	ggc	aca	caa	gtt	960
Gln	His	Gln	Pro	Gln	Lys	Arg	Pro	Pro	Ala	Pro	Ser	Gly	Thr	Gln	Val	
				285					290						295	
cac	cag	cag	aaa	ggc	ccg	ccc	ctc	ccc	aga	cct	cga	gtt	cag	cca	aaa	1008
His	Gln	Gln	Lys	Gly	Pro	Pro	Leu	Pro	Arg	Pro	Arg	Val	Gln	Pro	Lys	
			300					305					310			
cct	ccc	cat	ggg	gca	gca	gaa	aac	tca	ttg	tcc	cct	tcc	tct	aat	taa	1056
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Thr	Trp	Gly	Ala	Leu	Gly	Gln	Asp	Ile	Asn	Leu	Asp	Ile	Pro	Ser	Phe	
	10					15					20					
Gln	Met	Ser	Asp	Asp	Ile	Asp	Asp	Ile	Lys	Trp	Glu	Lys	Thr	Ser	Asp	
25					30					35					40	
Lys	Lys	Lys	Ile	Ala	Gln	Phe	Arg	Lys	Glu	Lys	Glu	Thr	Phe	Lys	Glu	
				45					50					55		
Lys	Asp	Thr	Tyr	Lys	Leu	Phe	Lys	Asn	Gly	Thr	Leu	Lys	Ile	Lys	His	
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Leu	Lys	Thr	Asp	Asp	Gln	Asp	Ile	Tyr	Lys	Val	Ser	Ile	Tyr	Asp	Thr	
		75					80					85				
Lys	Gly	Lys	Asn	Val	Leu	Glu	Lys	Ile	Phe	Asp	Leu	Lys	Ile	Gln	Glu	
	90					95					100					
Arg	Val	Ser	Lys	Pro	Lys	Ile	Ser	Trp	Thr	Cys	Ile	Asn	Thr	Thr	Leu	
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Asp Gly Lys His Leu Lys Leu Ser Gln Arg Val Ile Thr His Lys Trp
140 145 150

Thr Thr Ser Leu Ser Ala Lys Phe Lys Cys Thr Ala Gly Asn Lys Val
155 160 165

Ser Lys Glu Ser Ser Val Glu Pro Val Ser Cys Pro Glu Lys Gly Leu
170 175 180

Asp Ile Tyr Leu Ile Ile Gly Ile Cys Gly Gly Gly Ser Leu Leu Met
185 190 195 200

Val Phe Val Ala Leu Leu Val Phe Tyr Ile Thr Lys Arg Lys Lys Gln
205 210 215

Arg Ser Arg Arg Asn Asp Glu Glu Leu Glu Thr Arg Ala His Arg Val
220 225 230

Ala Thr Glu Glu Arg Gly Arg Lys Pro His Gln Ile Pro Ala Ser Thr
235 240 245

Pro Gln Asn Pro Ala Thr Ser Gln His Pro Pro Pro Pro Gly His
250 255 260

Arg Ser Gln Ala Pro Ser His Arg Pro Pro Pro Gly His Arg Val
265 270 275 280

Gln His Gln Pro Gln Lys Arg Pro Pro Ala Pro Ser Gly Thr Gln Val
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Val Cys Leu Leu His Cys Phe Gly Phe Ile Ser Cys Phe Ser Gln Gln
-10 -5 -1 1

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Ile Tyr Gly Val Val Tyr Gly Asn Val Thr Phe His Val Pro Ser Asn
5 10 15 20

gtg cct tta aaa gag gtc cta tgg aaa aaa caa aag gat aaa gtt gca 192
Val Pro Leu Lys Glu Val Leu Trp Lys Lys Lys Gln Lys Asp Lys Val Ala
25 30 35

gaa ctg gaa aat tct gaa ttc aga gct ttc tca tct ttt aaa aat agg 240
Glu Leu Glu Asn Ser Glu Phe Arg Ala Phe Ser Ser Phe Lys Asn Arg
40 45 50

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Val Tyr Leu Asp Thr Val Ser Gly Ser Leu Thr Ile Tyr Asn Leu Thr
55 60 65

tca tca gat gaa gat gag tat gaa atg gaa tcg cca aat att act gat 336
Ser Ser Asp Glu Asp Glu Tyr Glu Met Glu Ser Pro Asn Ile Thr Asp
70 75 80

acc atg aag ttc ttt ctt tat gtc gac aaa act cac aca tgc cca ccg 384
Thr Met Lys Phe Phe Leu Tyr Val Asp Lys Thr His Thr Cys Pro Pro
85 90 95 100

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Cys	Pro	Ala	Pro	Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	
				105					110					115		

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Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr
120 125 130

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135 140 145

tgg tac gtg gac ggc gtg gag gtg cat aat gcc aag aca aag ccg cgg 576

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 25 30 35
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 40 45 50
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 55 60 65
 Ser Ser Asp Glu Asp Glu Tyr Glu Met Glu Ser Pro Asn Ile Thr Asp
 70 75 80
 Thr Met Lys Phe Phe Leu Tyr Val Asp Lys Thr His Thr Cys Pro Pro
 85 90 95 100
 Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro
 105 110 115
 Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr
 120 125 130
 Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn
 135 140 145
 Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg
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 Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val
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 215 220 225
 Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe
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 245 250 255 260
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 265 270 275

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Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly
280 285 290

Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr
295 300 305

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310 315